109 Clerwood Boulevard, Schwestady, N.Y., Oct. 17, 1922.

Mydear Courserford; Yours of the 7th was duly received, and it-is a satisfaction thereby to Know that you are pleased with ney rough designe for an Edison commemorative morniment at Merelo Varl - to be made mostly from the bricks of the old machine steop riview. There only to add here that it should be a more until that is a mornment, pay 25 or 30 feet tall above the grande base. Granite (cut) is expensive, but there need be only a granite outside, felled with Concrete, which would be as durable as all granute, and look just the Dane. Any concrete exterior parts would look cheap.

as you know, the first Edison electric broundice (now in the Edisonia Extribition in New York City) is in a pash, dilapidated condition, with many parts missing. It can be made as good as new, however, from fine plotographes of it, from different angles, taken in 1881 for use in a potent interference buit. I testified in that Ruit, and trave a copy of the printed records, including the photographs. Wardlaw Knows of this.

From these records, especially the testimony

Maline L. Hornig, who was the draughtsman and meechanical engineer on the Job, I find the work on the rail way began in Marcle, 1880. The rails were obtained in april, and laying them began on april 11th. The laying mas completed

and electrical connection was made

The locamotive was first operated on May 13Th, but operation ceased the first day due to the friction driving pully breaking. The motor armature was connected with the locamotive driving axle through pulleys braining grower and ridges one their faces, which engaged and drove by friction, I was present at the trial

within a day or two, say, seworth pulleys and belting swere substituted for the friction drive, and the locanotive was again operating on the brack, and this continued until the fall of 1880. The locanotive in this condition was the one the public, in thousands, saw and pade behind, and is the one know as Edison's First Electrical ocomotive—

now at the Edisonia Exhibition, a relie

gearing was substituted for the pulleys and belting, but later removed and the pulleys and belting were pestored in original

form,

Horning could not remember the date this restoration seas made, Neither can I, but I remember the fact - and vividly for sufficiently good reason personal to myself.

The circumstances (or power important overs) are these; after the friction gearing brothe, May 13, 1880, and the puroth pulley and belting publitatetion was made to Keep the realway going, it took until fall to design the more and of your gearing, and get it made and ow the ground, and nistabled to demonstrate, as Edison desired, that he cary traction at low speed for certain purposes was practicable.

In the trine for installing approached, I did a little figuring on the design on my own account, and sometion to some modestly rentured the opinion to some one that about 75 percent of the energy transmitted to this succleanism resould be plopped there by friction.

My opinion traveled snysterious, to Edison, with the result that, "one dark and stormy night" D swar genet, invited to leave my Salovaton sanctum and take a walk to Kruesis office in the machine shop where "Edison want to see you," There I found, awaiting me in belligerent attitude, Edison, Batchelor, Uplon, Kruesi and Horning. Then followed the gustionis and ausines: "Have you said so?", "yes." "Prove it" "I will". Whereafon I proved it to my own satisfaction; but with no favorable

10/17/22 4 impression upon Edison - or the rest. To put matters milally, he gave me the very devil for my temerity; said Weat if I was right, the design would make a "dammed good melting furnace" (which was his metaphorical way of Daying that I was a damened fool in the matter, and po said that my feelings should not be overhunt), and settered other hot stuff. Well, we all parted to earl off, "each of the sawe opinion stell", and to await vistallation and lest, theday of reckning came, but I reas never paid the debts due me for the interviewthat night, except indirect through the inward paterfaction at not through their professional defeat. The beamotive, with its new worm and shur gearing, was ready one day, the circuit rios closed; the new avangement began its work, grinding away lette a big flour mile; the locomotive very slowly moved along the brack for perhaps 200 feet, when flames shot out from the greasy reaste in the Journal Coxes, The test ended there; 75 percent, Day, The energy trad stopped where I said it would, and as heat, had braveled to the gournal boyes. The fulley and belt arrangement sous quickly replaced, and the locomotive than been in peace, mostly resting, ever pince.

lopoler =

The photographs, be fore mentioned, do
not above a suggestion of a beadlight.
But both Edison and I lestified that
one was sustabled and used, and
I can remember it today. We testified in 1881. I am sure that illustrations of Edison's railway in
lecturical governals, and perhaps
Menspapers of that day, will show
the headlight on the first locomention.

Verythely your,

Shas. Lelarke.

7. C. Marten, Ere., Worthington, Ringville P.O., Mass.